ABSTRACT OF THE DISCLOSURE

A protection relay for determining whether or not a faultal point of a power system exists in a predetermined range, comprises filter section for inputting sampling data of a voltage and a current in the power system to a digital filter having a predetermined transfer function and outputting a first voltage data and a first current data, and a second voltage data and a second current data normal to the first voltage data and the first current data, respectively, calculator for calculating a predetermined measurement value based on the first and second voltage data, and the first and second current data at a first time and the first and second voltage data, and the first and second current data at a second time different from the first time, and operation decision section for performing an operation decision based on the predetermined measurement value obtained by the calculator.